



Data and communication cable

Cat.6A S/FTP Marine Approved

Article number: 24031

02-10-2026

Description

4 x 2 x AWG 23/1 LSHF Grey

Application:

Category 6A DNV- GL marine approved LAN cables are used extensively for media distribution and entertainment system integration.

Characteristics (properties):

- Available in stranded (AWG 23/7 CAT6A) and solid (AWG 23/1 CAT 6A) conductors
- Halogen free and low smoke, flame retardant
- DNV certified
- Suitable for use with CAT6A RJ45 Modular jack (800412)



* This image may differ from the actual product.

Core identification:

- White/Blue, White/Orange, White/Green, White/Brown

Trading information

Product group	Data and communication cable
Type	Cat.6A S/FTP Marine Approved
Net. Weight	0,075 kg/m
Sheath marking	TKF - InduData - Category 6A S/FTP - 4x2x0.246 mm ² AWG 23/1 solid - HFFR-LS - MARINE APPROVED {Batch} {Length}

Trade lengths

Minimal order

Reel à 305	(24031H X 305 / 8713182396848)	1 PCE
Reel à 1000	(24031H X 1000 / 8713182396589)	1 PCE



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Construction characteristics

Standardization	BS EN 50288-2-1, ISO/IEC 11801, IEC 61156-5, UL Subject 444
Number of cores	8
Nominal cross section conductor	0,246 mm ²
Conductor material	Copper
Conductor category	Class 1 = solid
Number of stranding elements	4
Number of conductors per group	2
Screen over stranding element	Al/Polyester foil
Material core insulation	Polyethylene, foamed (foam PE)
Core identification	Colour
Colour insulated wires	White/Blue - White/Orange - White/Green - White/Brown
Screen over stranding	Tinned copper braiding
Material outer sheath	LSZH
Colour outer sheath	Grey



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Properties

Flame retardant	IEC 60332-3-24 Cat. C
Flame retardant according to IEC 60332-3-24 (Cat C)	Yes
Halogen free	IEC 60754-1 / IEC 60754-2
Low smoke	IEC 61034-1 & IEC 61034-2
UV protection	None
Oil resistant	IEC 60811-2-1 IRM 902/ASTM No.2 (70°C for 4 Hrs)
Diameter conductor	0,56 mm
Insulation thickness	0,38 mm
Diameter over armouring (nom.)	6,5 mm
Outer sheath thickness	0,75 mm
Outer diameter approx.	8 mm

Technical characteristics

Min. bending radius during installation	105 mm
Min. bending radius after installation	80 mm
Tensile load	110 N
Permitted cable outer temperature during assembling/handling	-15 / 50 °C
Permitted cable outer temperature after assembling without vibration	-40 / 85 °C
Transportation and storage temperature	-40 / 85 °C

Electrical characteristics

Conductor DC resistance @ 20°C	95 Ohm/km
Velocity factor	76 %



Product information

Electrical performance

Article nr.:24031	Cat.6A S/FTP Marine Approved 4 x 2 x AWG 23/1 HFFR-LS Grey	Version : 66J56-008SHF1
Standard :	BS EN 50288-4 & TIA/EIA-568-C.2 & UL Subject 444 & YD/T1019-2013 (P.R.C.) & IEC61156-5 & ISO/IEC 11801	

Application :	Generic cabling systems. Including 10/100/1000 BaseT, ATM & Token Ring. This range of screened cables is designed to support Cat 6A Link and Channel performance. With internationally defined Physical and Electrical performance up to 500 MHz.
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Transmission performances				Frequency range																				
Frequency Unit	kHz			MHz																				
Transmission Frequency	1	10	100	1	4	10	16	20	31.25	62.5	100	200	250	400	500	600	700	800	900	1000	1500	2000		
Attenuation (dB/100m)	-	-	-	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	27.6	31.1	40.1	45.3	-	-	-	-	-	-	-		
Characteristic Impedance (ohm)	-	-	-	100±15									100±22			100±25			-	-	-	-	-	-
Return Loss (dB)	-	-	-	20.0	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3	17.3	17.3	-	-	-	-	-	-	-		
Skew(ns/100m)	-	-	-	≤ 45												-	-	-	-	-	-	-	-	
Propagation Delay (ns/100m)	-	-	-	570	552	545.4	543	542	540.4	538.6	537.6	536.5	536.3	536.3	536.3	-	-	-	-	-	-	-		
NEXT (dB)	-	-	-	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	40.8	39.3	36.3	34.8	-	-	-	-	-	-	-		
PS NEXT (dB)	-	-	-	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	33.3	31.8	-	-	-	-	-	-	-		
EL FEXT (dB/100m)	-	-	-	68,0	56,0	48,0	43.9	42,0	38.1	32.1	28,0	22,0	20,0	16,0	14,0	-	-	-	-	-	-	-		
PS EL FEXT (dB/100m)	-	-	-	65,0	53,0	45,0	40.9	39,0	35.1	29.1	25,0	19,0	17,0	13,0	11,0	-	-	-	-	-	-	-		